

WHAT IS CLAIMED IS:

1. An image photographing/reproducing system, comprising: an photographing apparatus for photographing an image using a photographing lens in a predetermined region and recording a photographed image in an image recording medium;

first communication unit capable of transmitting and receiving information to and from second communication unit at a communication point installed in the predetermined region when the image is photographed;

information recording unit for recording at least one of photographed frame information or photographed time information of the photographed image and first identification information of said image recording medium, and second identification information of the communication point, at least one of the photographed frame information, the photographed time information, the first identification information and the second identification information being transmitted and received between said first communication unit and said second communication unit when the image is photographed and

an image reproducing apparatus, including:

photographed image acquiring unit for acquiring the photographed image recorded in said image recording medium of said photographing apparatus when the photographed image is

卷之三

reproduced;

information acquiring unit for acquiring at least one of the photographed frame information or the photographed time information of the photographed image and the first identification information, and the second identification information from said information recording unit;

data acquiring unit for determining a photographed place of the photographed image of the photographed frame based on the second identification information and acquiring at least one of predetermined image data, document data, audio data and program data corresponding to the photographed place as composite data;

image reproducing unit for reproducing the photographed image acquired by said photographed image acquiring unit and recorded in said image recording medium as a reproduced image; and

data recording unit for recording the composite data acquired by said data acquiring unit in association with the reproduced image having been reproduced by said image reproducing unit.

2. The image photographing/reproducing system according to claim 1, wherein said first communication unit is provided with said photographing apparatus.

EPO DOCUMENT

3. The image photographing/reproducing system according to claim 2, wherein said photographing apparatus further includes said information recording unit that records the second identification information of the communication point received by said first communication unit from said second communication unit at the communication point.

4. The image photographing/reproducing system according to claim 1, wherein said first communication unit is disposed to a card with a communication function corresponding to said photographing apparatus.

5. The image photographing/reproducing system according to claim 4, wherein said card with the communication function further includes said information recording unit that records the second identification information of the communication point which said first communication unit has received from said second communication unit at the communication point.

6. The image photographing/reproducing system according to claim 1, wherein:
said image recording unit is disposed in the

predetermined region as a database;

 said first communication unit transmits, when the image is photographed, the photographed frame information or the photographed time information having been acquired by said photographing apparatus and the first identification information of said image recording medium to said second communication unit at the communication point;

 the communication point causes the database in the predetermined region to record and manage the photographed frame information or the photographed time information received by said second communication unit and the first identification information together with the second identification information of the communication point; and

 said information acquiring unit acquires, when the photographed image is reproduced, the photographed frame information or the photographed time information, the first identification information, and the second identification information by reading them from the database.

7. The image photographing/reproducing system according to claim 1, wherein said first communication unit is disposed in an integrated circuit chip.

8. The image photographing/reproducing system

D E S C R I P T I O N

according to claim 1, wherein said first communication unit and said information recording unit are integrated with each other as an integrated circuit chip.

9. The image photographing/reproducing system according to claim 1, wherein said image recording medium is a photographic film.

10. The image photographing/reproducing system according to claim 9, wherein said integrated circuit chip is mounted on the Patrone of said photographic film.

11. The image photographing/reproducing system according to claim 1, wherein said photographing apparatus is a lens-fitted photographic film package.

12. The image photographing/reproducing system according to claim 1, wherein said image recording medium is an image data recording medium.

13. The image photographing/reproducing system according to claim 12, wherein said integrated circuit chip is mounted on a housing accommodating said image data recording medium.

14. The image photographing/reproducing system according to claim 1, wherein said photographing apparatus is a digital still camera or a digital video camera.

15. The image photographing/reproducing system according to claim 1, wherein:

 said image reproducing unit reproduces the reproduced image of the photographed image as a photographic print; and
 said data recording unit combines the composite data with the reproduced image or prints the composite image on the back surface of the photographic print.

16. The image photographing/reproducing system according to claim 1, wherein:

 said image reproducing unit is a media driver for recording the image data of the reproduced image of the photographed image in said image data recording medium; and

 said data recording unit combines the composite data with the image data of the reproduced image or records the composite data to the header of the image data of the reproduced image.

17. The image photographing/reproducing system according to claim 1, wherein:

TOP SECRET//COMINT

said image reproducing unit is image data delivering unit for delivering the image data of the reproduced image of the photographed image through a communication network; and

said data recording unit combines the composite data with the image data of the reproduced image or records the composite data to the header of the image data of the reproduced image.

18. The image photographing/reproducing system according to claim 1, wherein:

the photographed frame information is a photographed frame number: and

the identification information of the communication point
is an identification number of the communication point

19. The image photographing/reproducing system according to claim 18, wherein:

the communication point is a gate installed in the predetermined region; and

the identification number information of the communication point is gate information indicating a predetermined place in the predetermined region.

20. The image photographing reproducing system according to claim 19, wherein the exposure light source

卷之三

information of said communication point is information indicating a predetermined photographed place, or information including information indicating the predetermined photographed place and a predetermined image or document corresponding to the predetermined photographed place.

21. The image photographing reproducing system according to claim 1, wherein when a plurality of photographed frames exist in correspondence to the same communication point, at least one of predetermined different image data, document data, audio data and program data corresponding to the photographed place is allocated to each photographed frame.

22. The image photographing reproducing system according to claim 1, wherein date and time information is further added to the second identification information of said communication point, and a photographed date and time or time zone is recorded on each print.

23. The image photographing reproducing system according to claim 1, wherein photographed frames corresponding to the same communication point are classified into the same group, and an index print is produced by combining the images recorded on the photographed frames with a particular

background image.

24. The image photographing/reproducing system according to claim 1, wherein said photographing apparatus further comprises:

a memory for previously recording audio data or an audio data receiving unit for receiving predetermined audio data corresponding to said communication point therefrom; and

a speaker for reproducing and outputting the audio data recorded by said memory or the audio data received from said communication point by the audio data receiving unit;

wherein the audio data is reproduced and output each photographed frame or each operation by the speaker.

25. The image photographing/reproducing system according to claim 1, wherein said photographing apparatus further comprises:

an image display section disposed on the exterior of a housing and comprising a sheet-like image display device; and

an image display adjustment unit for adjusting an image displayed on said image display section.

26. The image photographing/reproducing system according to claim 25, wherein said image display section

comprises a plurality of image display surfaces disposed on a plurality of surfaces of the housing.

27. The image photographing/reproducing system according to claim 25, wherein said image display adjustment unit selects image data to be displayed on said image display section and displays at least one of a reduced image of the photographed image, an image to be photographed, an operation setting screen, and an operation explanation screen on said image display section.

28. The image photographing/reproducing system according to claim 25, wherein:

said photographing apparatus comprises image data acquiring unit for acquiring image data; and

said image display adjustment unit displays an image acquired based on the image data acquired by said image data acquiring unit on the image display section.

29. The image photographing/reproducing system according to claim 28, wherein:

said image data acquiring unit acquires the image data previously stored in the image recording medium or a data recording unit, or receiving image data by an image data

receiving unit; and

said image display adjustment unit displays the image acquired based on the acquired image data on said image display section at a predetermined timing.

30. An image photographing/reproducing method, comprising the steps of:

on a side of a photographing apparatus, photographing an image using a photographing lens in a predetermined region and recording a photographed image in an image recording medium.

recording, when the image is photographed, at least one of photographed frame information or photographed time information of the photographed image and first identification information of said image recording medium, and the identification information of the communication point which are obtained by communicating between said photographing apparatus and a communication point installed in the predetermined region;

when the photographed image is reproduced on a side of an image reproducing apparatus, acquiring the photographed image recorded in said image recording medium of the image photographing apparatus;

acquiring at least one of the photographed frame information or the photographed time information of the

卷之三

photographed image and the first identification information, and the second identification information;

determining a photographed place of the photographed image of the photographed frame based on the second identification information and acquiring at least one of predetermined image data, document data, audio data and program data corresponding to the photographed place as composite data;

reproducing the photographed image that is acquired as a reproduced image; and

recording the composite data corresponding to the reproduced image.

31. A photographing apparatus for photographing an image using a photographing lens in a predetermined region, comprising:

an image recording medium for recording a photographed image;

first communication unit capable of transmitting and receiving information to and from second communication unit at a communication point installed in the predetermined region; and

information recording unit for recording, when the image is photographed, photographed frame information or photographed time information of the photographed image and

second identification information of the communication point received by said first communication unit from said second communication unit at the communication point,

wherein the photographed frame information or the photographed time information and the second identification information are utilized when the photographed image is reproduced.

32. The image photographing apparatus according to claim 31, wherein, when the photographed image is reproduced, said photographed frame information or said photographed time information and said second identification information which are recorded on said information recording unit, or first identification information of said image recording medium, said photographed frame information and said second identification information are read out.

33. The image photographing apparatus according to
claim 31, wherein:

said first communication unit transmits, when the image is photographed, said photographed frame information or said photographed time information and first identification information of said image recording medium which are recorded on said information recording unit to said second communication

unit at the communication point;

the communication point causes a database in the predetermined region to record and manage the photographed frame information or the photographed time information and the first identification information received by said second communication unit together with the second identification information; and

when the photographed image is reproduced, the photographed frame information or the photographed time information, the first identification information and the second identification information are read out from the database.

34. A photographing apparatus according to claim 31, further comprising:

a memory for previously recording audio data or an audio data receiving unit for receiving predetermined audio data corresponding to said communication point therefrom; and

a speaker for reproducing and outputting the audio data recorded by said memory or the audio data received from said communication point by the audio data receiving unit;

wherein the audio data is reproduced and output each photographed frame or each operation by the speaker.

35. The photographing apparatus according to claim 31,
further comprising:

an image display section disposed on the exterior of a
housing and comprising a sheet-like image display device; and
an image display adjustment unit for adjusting an image
displayed on said image display section.

36. An image reproducing apparatus, comprising:

photographed image acquiring unit for acquiring an image
photographed using a photographing lens of a photographing
apparatus in a predetermined region and recorded in an image
recording medium;

information acquiring unit for acquiring, when the image
is photographed, photographed frame information or
photographed time information of the photographing apparatus
and second identification information of a communication point
installed in the predetermined region that is received from
second communication unit at the communication point;

data acquiring unit for determining, when the photographed
image is reproduced, a photographed place of the photographed
image of the photographed frame based on the photographed frame
information and/or the photographed time information and the
second identification and acquiring at least one of
predetermined image data, document data, audio data and program

data corresponding to the photographed place as composite data;

image reproducing unit for reproducing the photographed image acquired by said photographed image acquiring unit and recorded in said image recording medium as a reproduced image; and

data recording unit for recording the composite data acquired by said data acquiring unit in association with the reproduced image reproduced by said image reproducing unit.

37. A photographing apparatus acting as a camera with a display screen for photographing an image using a photographing lens, comprising:

an image display section disposed on the exterior of a housing and comprising a sheet-like image display device; and

an image display adjustment unit for adjusting an image displayed on said image display section.

38. The photographing apparatus according to claim 37, wherein said image display section comprises a plurality of image display surfaces disposed on a plurality of surfaces of the housing.

39. The photographing apparatus according to claim 37, wherein said image display adjustment unit selects image data

to be displayed on said image display section and displays at least one of a reduced image of a photographed image, an image to be photographed, an operation setting screen, and an operation explanation screen on said image display section.

40. The photographing apparatus according to claim 37, wherein:

the camera with the display screen comprises image data acquiring unit for acquiring image data; and

said image display adjustment unit displays an image acquired based on the image data acquired by said image data acquiring unit on the image display section.

41. The photographing apparatus according to claim 40, wherein:

said image data acquiring unit acquires the image data previously stored in an image recording medium or a data recording unit, or receiving image data by an image data receiving unit; and

said image display adjustment unit displays the image acquired based on the acquired image data on said image display section at a predetermined timing.